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NABL ACCREDITED AS PER ISO/IEC 17025:2005

Job No.: CECTC-KRIDL-W.No.02-2016-17 Date: 12.05.2016

TEST REPORT

CLIENT	:	**Assistant Executive Engineer,** Yelahanka Sub Division, BBMP, Bangalore-64.
AGENCY	:	**Technical Manager(West),** KRIDL, BBMP Bangalore..
NAME OF THE WORK	:	Improvements to roads and drains western side kondappa layout near railway well in ward NO-02 of yelahanka Sub Division.
REFERENCE	:	BBMP/EE(YNK.D)/W.O/58/2016-17 Dated:30.04.2016
SAMPLE ID	:	Cement
SAMPLES SUPPLIED BY	:	AGENCY

The results of the tests conducted on the cement sample are as follows:

Sl.No	Descriptions	Test Method as per IS	Test Result	Requirements as per IS: 12269-1987
1	a) Initial Setting Time	IS-4031 (Part -5)	160 Minutes	Not Less than 30 Minutes
	b) Final Setting Time	IS-4031 (Part -5)	360 Minutes	Not More than 600 Minutes
2	Soundness	IS-4031 (Part 3) by the Le-Chatelier method	1 mm	Not more than 10 mm
3	Standard Consistency	IS-4031 (Part -4)	28.00 %	-

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Job No.: CECTC-KRIDL-W.No.02-2016-17 Date : 12.05.2016

TEST REPORT ON FINE AGGREGATES (SAND)
IS 383-1970 (RA- 2002)

Client **Assistant Executive Engineer,** Yelahanka Sub Division, BBMP, Bangalore-64.

Agency **Technical Manager(West),** KRIDL, BBMP Bangalore.

Name of Work Improvements to roads and drains western side kondappa layout near railway well in ward NO-02 of yelahanka Sub Division.

Reference BBMP/EE(YNK.D)/W.O/58/2016-17 Dated:30.04.2016

Date of Testing : 12.05.2016

Material : Sand Total wt. of aggregates in gms = 1000

Is Sieve Size in mm	Weight Retained (gm)	Retained Weight in %	Cumulative Retained Weight in %	Cumulative Weight Passing in %	Spec.Limits For Zone-II
10	0	0	0	100	100
4.75	56	5.60	5.60	94.4	90-100
2.36	124	12.40	18.00	82.0	75-100
1.18	146	14.60	32.60	67.4	55-90
600 Micron	274	27.40	60.00	40.0	35-59
300 Micron	266	26.60	86.60	13.4	8-30
150 Micron	76	7.60	94.20	5.8	0-10

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Job No.: CECTC-KRIDL-W.No.02-2016-17 Date : 12.05.2016

TEST REPORT ON COARSE AGGREGATES
IS 383-1970 (RA- 2002)

Client **Assistant Executive Engineer,** Yelahanka Sub Division, BBMP, Bangalore-64.

Agency **Technical Manager(West),** KRIDL, BBMP Bangalore.

Name of Work Improvements to roads and drains western side kondappa layout near railway well in ward NO-02 of yelahanka Sub Division.

Reference BBMP/EE(YNK.D)/W.O/58/2016-17 Dated:30.04.2016

Date of Testing : 12.05.2016

Material : 40mm Aggregates

Total wt. of aggregates in gms = **15000**

Is Sieve Size in mm	Weight Retained (gm)	Retained Weight in %	Cumulative Retained Weight in %	Cumulative Weight Passing in %	Spec.Limits
80	0	0	0	100	100
40	498	3.32	3.32	96.68	95-100
20	8274	55.16	58.48	41.52	30-70
10	3316	22.11	80.59	19.41	10-35
4.75	2168	14.45	95.04	4.96	0-5

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Job No.: CECTC-KRIDL-W.No.02-2016-17 Date : 12.05.2016

TEST REPORT ON COARSE AGGREGATES
IS 383-1970 (RA- 2002)

Client **Assistant Executive Engineer,** Yelahanka Sub Division, BBMP, Bangalore-64.

Agency **Technical Manager(West),** KRIDL, BBMP Bangalore.

Name of Work Improvements to roads and drains western side kondappa layout near railway well in ward NO-02 of yelahanka Sub Division.

Reference : BBMP/EE(YNK.D)/W.O/58/2016-17 Dated:30.04.2016

Date of Testing : 12.05.2016

Material : 20mm Aggregates

Total wt. of aggregates in gms = 5000

Is Sieve Size in mm	Weight Retained (gm)	Retained Weight in %	Cumulative Retained Weight in %	Cumulative Weight Passing in %	Spec.Limits
40	0	0	0	100	100
20	315	6.3	6.3	93.7	95-100
10	2276	45.5	51.8	48.2	25-55
4.75	2134	42.7	94.5	5.5	0-10

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Job No.: CECTC-KRIDL-BBMP-2016-17

Date: 19.05.2016

TEST RESULTS OF PHYSICAL PROPERTIES OF REINFORCEMENT STEEL

Client	:	**Assistant Executive Engineer,** Yelahanka Sub Division, BBMP, Bangalore-64.
Agency	:	**Technical Manager(West),** KRIDL, BBMP Bangalore.
Name of Work	:	Improvements to roads and drains western side kondappa layout near railway well in ward NO-02 of yelahanka Sub Division.
Reference	:	BBMP/EE(YNK.D)/W.O/58/2016-17 Dated:30.04.2016
Sample Identification	:	8mm, 10mm, 12mm, 16mm TMT Bars
Technical Reference	:	IS 1786:2008, IS 1608:2005, IS 1599:1985 (Reaffirmed 2006)
Date of test	:	19.05.2016

S.No	Brand	Nominal size (dia in mm)	Mass per metre (kg/metre)	TENSILE STRENGTH		
				0.20 % proof stress/ yield stress ($N/mm^{2)}$	Tensile strength ($N/mm^{2)}$	Elongation, percent on gauge length
1	Fe 500	8	0.395	532	559	15
2	Fe 500	10	0.617	551	578	16
3	Fe 500	12	0.888	575	593	17
4	Fe 500	16	1.570	593	615	18

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Job No.: CECTC-KRIDL-W.No.02-2016-17

Date: 08.06.2016

TEST REPORT ON CONCRETE CUBES

Client : **Assistant Executive Engineer,** Yelahanka Sub Division, BBMP, Bangalore-
Agency : **Technical Manager(West),** KRIDL, BBMP Bangalore.
Name of the work : Improvements to roads and drains western side kondappa layout near railway well in ward NO-02 of yelahanka Sub Division.

Sample ID : BBMP/EE(YNK.D)/W.O/58/2016-17 Dated:30.04.2016
Sample ID : Cement Concrete
Size of cubes : 150mmx150mmx150mm
Cross Sectional Area : 22500 mm^2
Technical Reference : IS: 516-1959 (Reaffirmed 2008)
Grade of Concrete : M_{20}
Compressive Strength as on : 28th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	11.05.2016	08.06.2016	8.149	522.8	23.24
2	11.05.2016	08.06.2016	8.196	489.4	21.75
3	11.05.2016	08.06.2016	8.269	486.9	21.64

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Job No.: CECTC-KRIDL-W.No.02-2016-17

Date: 08.06.2016

TEST REPORT ON CONCRETE CUBES

Client : **Assistant Executive Engineer,** Yelahanka Sub Division, BBMP, Bangalore-
Agency : **Technical Manager(West),** KRIDL, BBMP Bangalore.
Name of the work : Improvements to roads and drains western side kondappa layout near railway well in ward NO-02 of yelahanka Sub Division.

Sample ID : BBMP/EE(YNK.D)/W.O/58/2016-17 Dated:30.04.2016
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Size of cubes : 150mmx150mmx150mm
Cross Sectional Area : 22500 mm^2
Technical Reference : IS: 516-1959 (Reaffirmed 2008)
Grade of Concrete : M_{20}
Compressive Strength as on : 28th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	11.05.2016	08.06.2016	8.164	536.8	23.86
2	11.05.2016	08.06.2016	8.264	516.2	22.94
3	11.05.2016	08.06.2016	8.486	524.9	23.33

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Sample ID	: BBMP/EE(YNK.D)/W.O/58/2016-17 Dated:30.04.2016
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Cross Sectional Area	: 22500 mm^2
Technical Reference	: IS: 516-1959 (Reaffirmed 2008)
Grade of Concrete	: M_{20}
Compressive Strength as on	: 28th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	11.05.2016	08.06.2016	8.217	500.2	22.23
2	11.05.2016	08.06.2016	8.454	514.6	22.87
3	11.05.2016	08.06.2016	8.598	524.2	23.30

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